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| APPLICATION NO. | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
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| 10/082,357 | 02/26/2002 | Kari Hotakainen | P 290676 2990620US/Pg/kp | 9720 |
| 909 | 7590 | 08/13/2004 | EXAMINER AMINZAY, SHAIMA Q | |
| PILLSBURY WINTHROP, LLP P.O. BOX 10500 MCLEAN, VA 22102 | | | ART UNIT 2684 | PAPER NUMBER 7 |

DATE MAILED: 08/13/2004

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

10/082,357

Applicant(s)

HOTAKAINEN ET AL.

Examiner

Shaima Q. Aminzay

Art Unit

2684

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☒ Responsive to communication(s) filed on 26 February 2002.
2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1-16 is/are pending in the application.
4a) Of the above claim(s) _____ is/are withdrawn from consideration.
5) ☐ Claim(s) _____ is/are allowed.
6) ☒ Claim(s) 1,6-9 and 14-16 is/are rejected.
7) ☒ Claim(s) 2-5,10-13 is/are objected to.
8) ☐ Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
10) ☐ The drawing(s) filed on _____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
11) ☐ The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☐ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. _____.
3. ☒ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
3) ☒ Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08)
Paper No(s)/Mail Date 6/7-15-02.
4) ☐ Interview Summary (PTO-413)
Paper No(s)/Mail Date. _____.
5) ☐ Notice of Informal Patent Application (PTO-152)
6) ☐ Other: _____.

DETAILED ACTION

1. This action is responsive to communications: Application Filed:
02/26/2002.
2. Independent Claims 1, 9, and dependent claims 6-8, and 14-16 are
pending in the case.
3. Dependent claims 2-5, and 10-13 are objected;
4. The present title of the application is "Management of Location
Information".

NON-FINAL ACTION

Claim Rejections - 35 USC § 103

- ◆ The following is a quotation of 35 U.S.C. 103(a) which forms the basis
for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

- ◆ Claims 1, 8-9, and 16 are rejected under 35 U.S.C. 103(a) as being
unpatentable over Wang U. S. Patent 6009321 in view of Park U. S. Patent
6684078B1, and in further view of Fuller et al. U. S. Patent 6453164.

5. Regarding claim 1, 8, 9, and 16, Wang discloses a method for
processing location information in an intelligent network system connected

to a telecommunication system (see for example, column 1, lines 5-8, column 2, lines 51-62, the intelligent network connection is shown in Figure 1(50)), and especially to a mobile communication system (see for example, Figure 1, mobile 32 and 42, column 1, lines 5-8, column 2, lines 51-62), and the stored predetermined information is used for processing data (see for example, Figure 2, block 106 and 108).

However, Wang does not disclose the location information being composed of digits and the method comprising attaching a symbol to each digit of the location information to indicate the relevance of said digit to the processing purpose, and processing at least one digit of the location information indicated to be relevant according to predefined commands.

Park discloses the location information being composed of digits (see for example, column 4, lines 26-67 continued to column 5, lines 1-19), and using specific sets of digits for the location information (see for example, Figures 4, 5a, and 5b).

However, Park does not disclose attaching a symbol to each digit to indicate the relevance of said digit to the processing purpose, and processing at least one digit of the location information indicated to be relevant according to predefined commands.

Fuller discloses the attaching a symbol or tagging the digits to indicate the relevance of the digit to the processing purpose (see for example, column 1, lines 20-34, the tagged digits and the information relating to specific tag is listed in the table).

It would have been obvious to one of ordinary skill in the art at the time invention was made to combine Fuller's intelligent telephone control system tagging information digits with Park's data communications location information digits, and with Wang's controlled intelligent communication system to provide an intelligent communication system processing location information in and intelligent network to "allows subscribers to remotely control a plurality of call handling utilities" and provide unlimited "control to either the subscriber or the calling party with respect to the processing of calls" (Fuller; column 1, lines 26-31, and lines 50-57).

◆ Claims 6-7, and 14-15 are rejected under 35 U.S.C.103(a) as being unpatentable over Wang U. S. Patent 6009321 in view of Park U. S. Patent 6684078B1, and in further view of Fuller et al. U. S. Patent 6453164, and further in view of Chang et al. U. S. Patent 6167279.

6. Regarding claims 6, 7, 14, and 15, Wang, Park, and Fuller teach claims 1, and 9.

However, Wang, Park, and Fuller do not teach the GSM system and the location information is a CGI code and intelligent network system supports the implementation of Localized GSM Services.

Chang teaches the GSM system and the location information is a CGI code and intelligent network system supports the implementation of Localized GSM Services (see for example, column 8, lines 1-9, lines 15-

39, and lines 45-55, the GSM system and CGI code and intelligent network).

It would have been obvious to one of ordinary skill in the art at the time invention was made to combine Chang's GSM system using GSI (column 8, lines 3-4) with Fuller's intelligent telephone control system tagging information digits with Park's data communications location information digits, with Wang's controlled intelligent communication system to provide an intelligent communication system processing location information in and intelligent network to "allows subscribers to remotely control a plurality of call handling utilities" and provide unlimited "control to either the subscriber or the calling party with respect to the processing of calls" (Fuller; column 1, lines 26-31, and lines 50-57), and to provide a GSM system supports mobility management function with an intelligent network capabilities (Chang; column 2, lines 29-60).

Allowable Subject Matter

◆ Claims 2-5, and 10-13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims:

7. The following is a statement of reasons for the indication of allowable subject matter: "An intelligent network system according to claim 9,

wherein said processing means are arranged to form reference location information, attach a symbol to each digit of the reference location information, **the symbols forming a symbol mask and the value of said symbol being defined by said commands and indicating the relevance of the digit to processing the location information**, compare location information in said storing means to the symbol values of said symbol mask of the reference location information such that, as a response to said comparison, **location information is obtained wherein the digits indicated to be relevant by the symbol values of said symbol mask of the reference location information equal corresponding digits of said reference location information**, and process said obtained location information according to predetermined commands" as disclosed in claims 2-5, and 10-13.

Art Unit: 2684

Conclusion

1. The prior art made of record and not relied upon is considered pertinent to applicant's disclosure. See PTO-892 form.

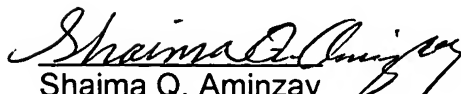
Inquiry

2. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Shaima Q. Aminzay whose telephone number is 703-305-8723. The examiner can normally be reached on 7:00 AM -5:00 PM.

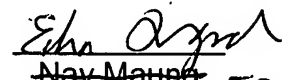
If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nay Maung can be reached on 703-308-7745.

The fax phone number for the organization where this application or proceeding is assigned is 703-872-9306.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).


Shaima Q. Aminzay
(Examiner)

August 5, 2004


~~Nay Maung~~ EDAN ORGAD
(SPE)
Art Unit 2684